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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1912.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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WOOD UTILIZATION.—H. S. SACKETT, in charge, Fisher Building, Chicago, Ill.

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- Sioux.**—See South Dakota.

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SILVICS.—E. R. HODSON.

GRAZING.—HOMER E. FENN, assistant district forester.
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NATIONAL FORESTS.

ARIZONA.

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IDAHO.

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Toiyabe.—HERBERT GRAFF, forest supervisor, Austin (WU, P-WF).

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Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

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Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); Wastach Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

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Caribou.—See Idaho.

Palisade.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am); H. B. Maris, forest assistant.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest assistant.

SILVICS.—J. A. MITCHELL, forest assistant.

E. P. Meinecke, consulting pathologist, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. Kupfer, A. K. Armstrong, Geo. M. Hunt, San Francisco, Cal.; H. E. McKenzie, Berkeley, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Ernest B. Long, deputy forest supervisor; Jesse W. Hough, forest assistant; Serope Y. Parnay, forest planting assistant, San Bernardino.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. N. WHEELER, forest supervisor, San Diego (WU, P-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor; Neal T. Childs, forest assistant.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Shirley W. Allen and Douglas K. Noyes, forest assistants.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); R. H. Boerker, forest assistant.

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, acting forest supervisor, Arbolado (WU, Monterey-WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-WF); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants; Patrick Kennedy, reconnaissance.

Santa Barbara.—D. D. BRONSON, acting forest supervisor, Santa Barbara (P-WF) H. G. Merrill, deputy forest supervisor; W. H. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, deputy forest supervisor; S. W. Wynne, forest assistant.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Shaw and Edward I. Kotok, forest assistants; F. L. Rickey, planting assistant; C. H. Ensign, reconnaissance.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley, forest assistant.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); J. V. Wulfi and Louis T. Larsen, forest assistants.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; Wm. H. Gallaher and K. Mills, forest assistants; J. C. Elliott, reconnaissance.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter and Howard DeForest, forest assistants.

NEVADA.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); T. C. West, deputy forest supervisor; Rex King, forest assistant.

Tahoe.—See California.

OREGON.

Eldorado.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; **W. E. HERRING**, district engineer; **R. E. BENEDICT**, forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). **W. F. STALEY**, assistant to the solicitor, in charge; **D. F. MCGOWAN**, assistant to the solicitor.

ACCOUNTS.—**A. H. COUSINS**, district fiscal agent.

OPERATION.—**C. H. FLORY**, assistant district forester.

MAINTENANCE.—**SHIRLEY BUCK**.

SILVICULTURE.—**F. E. AMES**, assistant district forester; **W. T. ANDREWS**, lumberman.

PLANTING.—**J. F. KÜMMEL**.

SILVICS.—**T. T. MUNGER**.

Studies, **E. J. Hanzlik**, Portland; **G. A. Bright**, Portland.

GRAZING.—**T. P. MACKENZIE**, assistant district forester.

LANDS.—**C. J. BUCK**, assistant district forester; **G. F. MEAD**, examiner.

Land Classification.—**G. W. Peavy**, **F. W. Cleator**, **R. W. Flournoy**.

PRODUCTS.—**J. B. KNAPP**, assistant district forester, in charge; **H. B. Oakleaf**, **C. W. Dunning**, **J. F. Pernot**, Portland; **O. P. M. Goss**, **C. W. Zimmerman**, **H. P. Wyckoff**, Seattle, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—**W. G. WEIGLE**, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); **Thos. M. Hunt**, deputy forest supervisor; **Bruce Hoffman**, forest assistant.

Tongass.—**W. G. WEIGLE**, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); **Max Rothkugel**, forest assistant.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—**C. R. SEITZ**, forest supervisor, Eugene (WU, P-WF); **F. B. Kellogg**, deputy forest supervisor; **B. Frank Heintzleman**, forest assistant.

Crater.—**M. L. ERICKSON**, forest supervisor, Medford (WU, P-WF); **S. S. Swenning**, deputy forest supervisor; **H. D. Foster** and **William E. White**, forest assistants.

- Deschutes.**—J. ROY HARVEY, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City).
- Fremont.**—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, forest assistant; Nelson J. Billings, grazing assistant.
- Klamath.**—See California.
- Malheur.**—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor.
- Minam.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); S. A. Brown, deputy forest supervisor.
- Ochoco.**—HOMER ROSS, forest supervisor, Prineville (PT & T Am); Ephraim Barnes, deputy forest supervisor.
- Oregon.**—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.
- Paulina.**—W. W. Cryder, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City).
- Santiam.**—N. F. MACDUFF, forest supervisor, Albany (WU-WF); E. B. Starr, forest assistant.
- Siskiyou.**—R. L. FROMME, forest supervisor, Grants Pass (WU, P-WF); Allen Hodgson, deputy forest supervisor; H. Haefner, forest assistant.
- Siuslaw.**—A. E. COHOON, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor.
- Umatilla.**—HUGH B. RANKIN, forest supervisor, Heppner (WU-Am).
- Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); E. H. McDaniels, deputy forest supervisor; Arthru Kerr, forest assistant.
- Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); Charles Black, grazing assistant; Robie M. Evans, forest assistant.
- Wenaha.**—See Washington.
- Whitman.**—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt, deputy forest supervisor; Harold P. Gilkey, forest assistant; Edwin C. Erickson, scaler.

WASHINGTON.

- Chelan.**—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, forest assistant.
- Columbia.**—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wileox and Lage Wernstedt, forest assistants.
- Colville.**—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.
- Okanogan.**—H. M. HALE, forest supervisor, Okanogan; V. V. Harpham, deputy forest supervisor.
- Olympic.**—P. S. LOVEJOY, forest supervisor, Olympia (WU-Am, GN, N); A. A. Parker, deputy forest supervisor; William H. Gibbons, forest assistant.
- Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest assistant.

Snoqualmie.—B. P. KIRKLAND, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve, forest assistant.
Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, deputy forest supervisor; Herman M. Johnson, forest assistant.
Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).
Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); C. P. Willis, forest assistant.

SERVICE CHANGES.

APPOINTED.

FORESTER.—Dendrology: Arthur Koehler, xylotomist.

PRODUCTS.—Laboratory: Ollison Craig, James D. MacLean, Harold R. Winter, and Frank J. Hallauer, assistant engineers in forest products; Henry E. Surface, chemical engineer in forest products; Robert E. Prince and Frank J. Yanker, laboratory aids and engineers.

APPALACHIAN.—Charles E. Beaumont, Loren L. Bishop, Elwood P. Bushnell, Jay J. Fritz, Walter A. Hopson, Carrington Macfarlane, and Percy T. Smith, forest assistants.

DISTRICT 1.—District office: John C. Beebe, junior engineer; Charles H. Ruth, topographic draftsman. Operation: William W. Fuller, assistant forest ranger, Bitterroot National Forest; Ralph T. Abbott, assistant forest ranger, Custer National Forest; Ben P. Martin, assistant forest ranger, Madison National Forest; Frank Campbell and Peter A. Lequet, assistant forest rangers, Marquette National Forest; Harry A. Goodale, Albert Frutig, and Walter W. Smith, assistant forest rangers, Michigan National Forest.

DISTRICT 2.—Operation: Edw. A. Brown, clerk (stenographer and typewriter), Bonneville National Forest; Edw. J. Dickson, clerk (stenographer and typewriter), Pike National Forest; James H. McCuen, clerk (stenographer and typewriter), Jennie R. Edwards, clerk (stenographer and typewriter), Sopris National Forest; Bernard M. Shoemaker, clerk, Leadville National Forest; Everard S. Keithley, forest assistant, Durango National Forest; Dwight S. Jeffers, forest assistant, Medicine Bow National Forest; Huber C. Hilton, forest assistant, Bighorn National Forest; William R. Kenney, assistant forest ranger, Uncompahgre National Forest; Joseph Thane, assistant forest ranger, San Juan National Forest.

DISTRICT 3.—Operation: Dayton G. Darrah, assistant forest ranger, Carson National Forest; Glen W. Dickinson, forest clerk, Florida National Forest; Adolph G. McCloskey, clerk, Gila National Forest; Roger A. Morse, forest clerk, Tusayan National Forest. Lands: Winifred A. Kilburn, clerk (stenographer and typewriter).

DISTRICT 4.—District office: Gladys O. Elliott, clerk (stenographer and typewriter); Florence E. Cooney, clerk (typewriter); Stella Staley, clerk (typewriter). Operation: Hubert C. Williams, forest assistant, Idaho National Forest; Louis V. Woulfe, clerk, Minidoka National Forest; Bessie A. Sheppard, clerk (stenographer and typewriter), Manti National Forest.

DISTRICT 5.—District office: Geo. E. Luttrell, clerk, bookkeeper; Theodore C. Zschokke, forest agent; John F. Boland, clerk (stenographer and typewriter). Operation: Alice Chittenden, typewriter, Modoc National Forest; Irene Sturgis, clerk (stenographer and typewriter), Santa Barbara National Forest; Fae Larison, clerk (stenographer and typewriter), Shasta National Forest; Edwin N. Purvis, clerk (stenographer and typewriter), Sierra National Forest; Ruth G. Trimble, clerk (stenographer and typewriter), Trinity National Forest. Products: Geo. M. Hunt, assistant chemist in forest products.

DISTRICT 6.—Operation: Maud V. Ferbrache, clerk (stenographer and typewriter). Silviculture: Harold H. Barbur, clerk, computer; Russell G. Pond, computer. Lands: Edward Dinan, expert. Products: Carroll W. Dunning, statistician in forest products; Halsey P. Wyckoff, assistant engineer in forest products.

RESTORED TO THE ROLLS.

DISTRICT 1.—Operation: Richard C. Eggleston, forest assistant, St. Joe National Forest.

DISTRICT 2.—Operation: Roy G. Waters, assistant forest ranger, Durango National Forest; John B. Green, assistant forest ranger, Holy Cross National Forest; Walter A. Wood, forest clerk, Montezuma National Forest.

DISTRICT 3.—Harry R. Batterton, assistant forest ranger, Apache National Forest; Harry C. Hall, deputy forest supervisor, Prescott National Forest.

DISTRICT 4.—Office of district forester: Charles L. Smith, forest supervisor (engaged upon examination of lands for exchange with State of Idaho). Operation: George W. Smith, assistant forest ranger, Challis National Forest.

DISTRICT 5.—District office: Minnie B. Lamson, clerk (stenographer and typewriter). Operation: Elmer H. McClure, assistant forest ranger, California National Forest; William J. Hoskins, assistant forest ranger, Inyo National Forest.

DISTRICT 6.—Operation: Laura W. Cottrell, map colorist.

CHANGE IN DESIGNATION.

DISTRICT 1.—District office: Edwin W. Kramer from constructing engineer to hydroelectrical engineer.

TRANSFERRED.

DISTRICT 1.—Silviculture: Warren F. Hale, forest assistant, from Helena National Forest to Absaroka National Forest; John C. De Camp, forest assistant, from district 2 to Kaniksu National Forest; Wilford B. Willey, forest assistant, from Selway National Forest to St. Joe National Forest; John E. Keach, forest assistant, from Helena National Forest to St. Joe National Forest; Howard A. Green, forest assistant, from Nez Perce National Forest to district office.

DISTRICT 2.—Operation: Herbert N. Wheeler, forest supervisor, Colorado National Forest to Cleveland National Forest, district 5; Walter J. Morrill, forest supervisor, Rio Grande National Forest to Washington office; G. P. Bard, deputy forest supervisor, White River National Forest to San Juan National Forest; A. L. Sweitzer, forest supervisor, San Juan National Forest

to Rio Grande National Forest; Otis M. Wimmer, forest ranger, district office to Sopris National Forest; Herbert E. Willis, assistant forest ranger, Montezuma National Forest to Durango National Forest; Fred J. Dingler, assistant forest ranger, Kootenai National Forest, district 1, to Medicine Bow National Forest; Kenson J. Helmick, assistant forest ranger, Holy Cross National Forest to Gunnison National Forest. Silviculture: George R. Morrison, forest assistant, Wagon Wheel Gap Experiment Station to Fremont Experiment Station; Peter Keplinger, forest assistant, San Juan National Forest to Wagon Wheel Gap Experiment Station; Seward D. Smith, forest assistant, district office to Black Hills National Forest; Huber C. Hilton, forest assistant, Bighorn National Forest to Medicine Bow National Forest; John C. De Camp, forest assistant, Durango National Forest to district 1; Arthur F. C. Hoffman, forest assistant, White River National Forest to San Juan National Forest; Gordon Parker, forest assistant, Bridger National Forest to Washakie National Forest. Products: Harold S. Betts, assistant district forester, district office to Madison.

DISTRICT 3.—Operation: Susie P. Barksdale, clerk, to district 7; Robert P. A. Johnson, forest ranger, from Carson National Forest to district office; Leo E. Anderson, assistant forest ranger, from Alamo National Forest to Carson National Forest; Robert R. Moak, assistant forest ranger, from Zuni National Forest to Chiricahua National Forest; Frank J. Mosher, forest assistant, from Pecos National Forest to Chiricahua National Forest; John W. Dorman, assistant forest ranger, from Tusayan National Forest to Coconino National Forest; John W. Spencer, forest assistant, from Carson National Forest to Florida National Forest; Edwin C. Hamilton, topographical draftsman, and Jennings D. McLeod, assistant forest ranger, from Jemez National Forest to Ozark National Forest; John A. Adams and Dave Winbray, assistant forest rangers, Daniel D. Harkness and Thomas B. Longwell, forest rangers, from Sitgreaves National Forest to Tonto National Forest. Silviculture: Margaret E. Baker, clerk (stenographer and typewriter), and Robert W. Shields, forest assistant, to district 7; Oliver F. Bishop and Raymond E. Marsh, forest assistants, from Carson National Forest to Ozark National Forest; George C. Morbeck, forest assistant, from Jemez National Forest to Ozark National Forest; Robert S. Wallace, forest assistant, from Gila National Forest to Ozark National Forest; Albert E. Moss, forest assistant, from Carson National Forest to Pecos National Forest.

DISTRICT 4.—Operation: Reese W. Taylor, forest assistant, Sevier National Forest to Targhee National Forest; assistant forest rangers—Paul L. Travis, Wyoming National Forest to Santa Rosa National Forest; William C. Shepard, Targhee National Forest to Palisade National Forest; Lucas W. Howard, Wasatch National Forest to Cache National Forest. District office: Elizabeth M. Cook, forest clerk, to Washington office.

DISTRICT 5.—Operation: Harold A. E. Marshall, forest supervisor, from Cleveland National Forest to Colorado National Forest, district 2; Jean Raison, clerk (stenographer and typewriter), from Bureau of the Census, Washington, to district office.

DISTRICT 6.—Operation: William H. Thompson, assistant forest ranger, district 4, to Whitman National Forest; W. E. Claflin, clerk (stenographer and typewriter), Santiam National Forest to Bureau of Plant Industry.

PROMOTED IN RANK.

DISTRICT 1.—Operation: D. Dailey Johnson, from forest ranger, Beartooth National Forest, to deputy forest supervisor, Blackfeet National Forest.

DISTRICT 2.—Operation: G. P. Bard, deputy forest supervisor, White River National Forest, to forest supervisor, San Juan National Forest; F. H. Carroll, forest clerk, to chief of maintenance, district office.

DISTRICT 3.—Operation: David L. Williams, from assistant forest ranger to forest ranger, Pecos National Forest; Robert Thompson, from assistant forest ranger to forest ranger, Tonto National Forest.

DISTRICT 4.—Operation: Forman T. McLean, forest assistant, to deputy forest supervisor, Manti National Forest; assistant forest rangers to forest rangers—David O. Thenrer, Caehe National Forest; James F. Matthews, Toiyabe National Forest.

DISTRICT 5.—Operation: Percy L. Day, from deputy forest supervisor, Cleveland National Forest, to forest supervisor, Monterey National Forest.

LEAVE WITHOUT PAY.

DISTRICT 1.—District office: Roy L. Medcalfe, clerk (stenographer and typewriter). Operation: Whiting Alden, forest assistant, Cabinet National Forest; Elwood I. Terry, forest assistant, Deerlodge National Forest; Nelson C. Brown, deputy forest supervisor, Kaniksu National Forest; assistant forest rangers—George E. McKinsey, Beartooth National Forest; Thomas A. Clapp, William W. Fuller, Walter F. Gilham, James D. Vanee, and Stephen A. Wallae, Bitterroot National Forest; Justin K. Dwinelle and Raymond J. Smith, Blackfeet National Forest; James L. Adams and Rollo Older, Cabinet National Forest; Harvey Fearn and Thomas E. Robinson, Coeur d'Alene National Forest; Foster J. Smith, Deerlodge National Forest; Roy E. Bonham, Richard N. Bradley, Armon E. Havens, Ellis B. Hoke, and Ray I. Trueman, Flathead National Forest; Albert S. Hapner, Gallatin National Forest; Robert L. Hess, Thomas E. Herrington, Robert C. St. Clair, and Russell V. Tanner, Kootenai National Forest; Frank J. Jefferson and Harley M. Massie, Lewis and Clark National Forest; Robert L. Townsend, Madison National Forest; Peter A. Pequet, Marquette National Forest; Harry A. Goodale and Walter W. Smith, Michigan National Forest; Milo M. Hoyt, Missoula National Forest; Thomas Crossley, William V. Manring, and Charles A. Rice, Nezperce National Forest; Phil S. Armstrong, James Campbell, Walter Glen, Mark F. Kelley, W. Karl Loughborough, Ernest A. MaeKay, Claude C. Parker, and Harvey W. Phillips, Pend Oreille National Forest; Thomas S. Rackliff and Louis Fitting, Selway National Forest; William C. Bessey and Edmund C. Johnson, St. Joe National Forest; Alexander T. MacNab, Sioux National Forest; forest rangers—Abel C. Berglund and Lea Marston, Gallatin National Forest.

DISTRICT 2.—Operation: David G. Belt, clerk, district office; Anna C. Klett, clerk (stenographer and typewriter), district office; Scovel H. Johnson, agent, district office; Sidney H. Axinear, forest clerk, Bonneville National Forest; John Bentley, jr., deputy forest supervisor, White River National Forest; assistant forest rangers—Leo F. Buchholz, Charles W. Euler, Arapaho National Forest; Walter J. Hill, Bonneville National Forest; George J. Belknap, Bridger National Forest; James A. Blath-

erwick, Durango National Forest; John O. Eames, James C. Jensen, Hayden National Forest; Ben Burch, Medicine Bow National Forest; Theodore Faunce, Montezuma National Forest; Norman B. Price, San Juan National Forest; John K. Rollinson and Simon Snyder, Shoshone National Forest; Herbert J. States, Washakie National Forest.

DISTRICT 3.—Silviculture: Arthur B. Reeknagel, assistant district forester, district office; John S. Boyce, forest assistant, Coconino Experiment Station; Otto F. Swenson, forest assistant, Pecos National Forest.

DISTRICT 4.—Operation: Abraham Rosemond, forest assistant, Manti National Forest; assistant forest rangers—Cyrus T. McCall, Idaho National Forest, William M. Mace, Kaibab National Forest; Clarence E. Favre, Payette National Forest; Paul Walter, Salmon National Forest; Odo R. Thomas, Uinta National Forest; William L. Thomas, Weiser National Forest; Lillian R. Jones, forest clerk, Nevada National Forest. District office: Dorris Head, clerk (stenographer and typewriter); Mary L. Ring, clerk.

DISTRICT 5.—Operation: Francis P. Porcher, deputy forest supervisor, Lassen National Forest; John C. Wells, forest ranger, California National Forest; Sylvester W. Strothman, forest assistant, California National Forest; Clinton A. Langstaff, clerk (stenographer and typewriter), Shasta National Forest; John F. Sivertson, forest ranger, Tahoe National Forest; John T. Noddin, forest ranger, Sierra National Forest; Ruth M. Lyle, clerk, Shasta National Forest; assistant forest rangers—John Grand and James G. Stanchfield, Angeles National Forest; Charles W. Bates and Clarence L. Russell, California National Forest; James A. Brown, Cleveland National Forest; Alvin T. Bodle and William J. Hoskins, Inyo National Forest; Michael H. McCarthy, Klamath National Forest; Lemuel M. Wright, Mono National Forest; William S. Everts, Monterey National Forest; Zachary T. Davidson and Ren S. Featherstone, Santa Barbara National Forest; Fred Hansen, Shasta National Forest; William H. Parkinson and Jesse E. Roberts, Sierra National Forest; Robert C. Woodburn and Walter S. Barton, Tahoe National Forest. District office: Fred Weber, clerk; Minnie B. Lamson, clerk (stenographer and typewriter).

DISTRICT 6.—Operation: Walter F. Wright, assistant forest ranger, Crater National Forest; Clinton W. Combs, assistant forest ranger, Fremont National Forest; Herbert J. Miles, forest assistant, Malheur National Forest; Charles C. Hon, assistant forest ranger, Ochoeco National Forest; George R. Ledford, assistant forest ranger, Oregon National Forest; Earl Austin, assistant forest ranger, Paulina National Forest; Hugh V. Anderson, assistant forest ranger, Siskiyou National Forest; U. L. Upson, clerk, Siskiyou National Forest; assistant forest rangers—E. E. Harpham, Clarence J. Ingram, E. H. Lough, and U. F. McLaughlin, Umpqua National Forest; Corydon P. Cronk, Siuslaw National Forest.

FURLOUGHED.

DISTRICT 2.—Operation: Assistant forest rangers—Thomas O. Patterson, Clayton Winterstein, Battlement National Forest; W. F. Bates, Walter G. Brown, Colorado National Forest; Eldon W. Hauser, Gunnison National Forest; Edw. F. Heaton, Leadville National Forest; Harold S. Priestley, Montezuma National Forest; Stanley R. Brock, Frank E. Stapleton, Routt National Forest; Edw. N. Brown, Sopris

National Forest; Truman O. Foley, Uncompahgre National Forest; Walter T. Schmehl, Washakie National Forest; Robert K. Potter, White River National Forest; Otis D. Henton, Bonneville National Forest.

DISTRICT 3.—Operation: Isabel H. Mordy, forest clerk, Datil National Forest; Lillie A. Cheshire, clerk, Jemez National Forest; Luetta C. Steinemann, clerk (stenographer and typewriter), Tusayan National Forest; James P. Leese, forest ranger, Jemez National Forest; Davis B. Rudd, forest ranger, Sitgreaves National Forest; Jacob L. Pritchard, forest ranger, Apache National Forest; assistant forest rangers—Raymond E. Hopson, Apache National Forest; Edw. H. Rushworth, Carson National Forest; Roy H. Miller, Crook National Forest; Percy Reid and Joseph W. Jackson, Gila National Forest; Daniel R. Carter and Thomas Verner, Jemez National Forest; James R. Ewell, Pecos National Forest; Samuel E. Day, jr., Zuni National Forest.

DISTRICT 4.—Operation: Assistant forest rangers—Edmund B. S. Spencer, Cache National Forest; Matthew Bowers, Manti National Forest; James J. McKelvey, Sawtooth National Forest; Forest Turner, Sawtooth National Forest.

DISTRICT 5.—Operation: Deputy forest rangers—Alley C. Keller and Samuel B. Clifton, Angeles National Forest; assistant forest rangers—Jesse L. High and Elmer H. McClure, California National Forest; Eugene T. Benney, Irvn M. Fulkerth, John M. Hughes, William F. E. Kelly, and Walter L. Parsons, Eldorado National Forest; Edmund M. Hufford, Wm. J. Spalding, and Jonathan M. Stark, Lassen National Forest; Geo. Bettendorff and William J. Lunsford, Modoc National Forest; Birney William Adams, Monterey National Forest; Leonard P. Wygle, Plumas National Forest; William F. Blackburn, Santa Barbara National Forest; Ross A. McCloud, Shasta National Forest; Ninion E. Duncan, Sierra National Forest; Hedley L. Mero, Stanislaus National Forest; William D. Campbell and George M. Noyes, Tahoe National Forest; Oscar O. Hays, John W. Larson, Samuel A. Shield, John R. Sorenson, and Wm. H. Woodhams, jr., Trinity National Forest.

DISTRICT 6.—Operation: Edward A. Braniff, forest supervisor, Crater National Forest; Frederick Hanson, forest ranger, Olympic National Forest; assistant forest rangers—Thos. H. Griggs, Paulina National Forest; Oliver C. Klingensmith, Joseph L. Mackechnie, Jos. G. G. Morgan, Edgar J. Murnen, Robt. J. O'Farrell, William Sethc, and Ed Tittle, Rainier National Forest; Revis Costello, Siskiyou National Forest; Clarence Anderson, Wiley E. Escher, M. Donald Knapp, Ernest J. Moore, Leland S. Wellington, Wendell R. Whitney, Snoqualmie National Forest; Amos O. Masiker, Chelan National Forest; Edward S. Kerby and Albert L. Peachy, Crater National Forest; John H. Blinn, Frederic V. Bradford, and Grover C. Conger, Malheur National Forest; Tillman F. Foster and William C. Sweat, Okanogan National Forest; Geo. W. Hutton and Vinton McKibben, Olympic National Forest; Horace Berry, W. O. B. Davidson, Martin J. Gribble, Carl C. Hill, B. S. Patton, John B. Senecal, Oregon National Forest; Oscar Pratt, Wallowa National Forest; James Lowden, Washington National Forest; Geo. E. Stevenson, Wenaha National Forest; John S. Brender, Jas. E. Ewing, Hans T. Hansen, Rush J. Huston, Carl W. Ray, Wenatchee National Forest; George Donaldson and Thomas H. Parker, Whitman National Forest.

RESIGNED.

PRODUCTS.—Laboratory: Charles T. Leigh and Everett P. Peterson, assistant engineers in forest products.

APPALACHIAN.—William H. Hoover, agent.

DISTRICT 1.—Operation: Ora E. Yates, assistant forest ranger, Absaroka National Forest; Fremont N. Haines, forest supervisor, Blackfeet National Forest; James S. Garrison, Clearwater National Forest; Henry R. Snider, Coeur d'Alene National Forest; Fred E. Hughes and George F. Ranney, forest rangers, Decr lodge National Forest; Oline Graeter, forest clerk, Deerlodge National Forest; Horace A. Cleaveland, forest ranger, and Francis E. Baker, assistant forest ranger, Gallatin National Forest; Albert E. Cole, deputy forest ranger, and Chas. C. Thompson, assistant forest ranger, Helena National Forest; Joseph W. Butler, forest assistant, Madison National Forest; Will L. Vermillion, assistant forest ranger, Nezperce National Forest; Edw. C. Thenon, deputy forest supervisor, Selway National Forest.

DISTRICT 2.—Operation: Lillian E. Wesseler, clerk (stenographer and typewriter), district office; Thomas D. Lester, assistant forest ranger, Bighorn National Forest; Alfred A. Williams, assistant forest ranger, Stanley B. Hall, forest assistant, Gunnison National Forest; Mayme Yarger, clerk, Holy Cross National Forest; Charles H. Reily, clerk (stenographer and typewriter), Pike National Forest; Frank W. Pennock, assistant forest ranger, Medicine Bow National Forest; Frank L. Trickle, assistant forest ranger, Montezuma National Forest; Glenn K. Musell, assistant forest ranger, Rio Grande National Forest.

DISTRICT 3.—Operation: Edwin A. Haggard, assistant forest ranger, Carson National Forest; George Edmond Gillie, assistant forest ranger, Coconino National Forest; Clinton A. Hodges, assistant forest ranger, Datil National Forest; Howard Ferguson, clerk, Florida National Forest; Samuel A. Frey and Everett T. Holmes, assistant forest ranger, Gila National Forest; Edwin W. Kerr, clerk, Jemez National Forest.

DISTRICT 4.—Operation: John H. Clark, deputy forest supervisor, Kaibab National Forest; Edw. F. McCarthy, forest assistant, Caribou National Forest; forest rangers—John F. Squires, Cache National Forest; Riley Patten, Toiyabe National Forest; assistant forest rangers—Wallace Adair, Cache National Forest; Frank S. Brown, Kaibab National Forest; Charles E. Fleming, Palisade National Forest; Ross S. Tobias, Salmon National Forest; Ralph J. Wilcock, Sevier National Forest; Edwin T. Alvord, Targhee National Forest; Robert E. Marshall, Toiyabe National Forest; Nicholas S. Phelan, Weiser National Forest; John W. Davis, Wyoming National Forest.

DISTRICT 5.—Operation: Gilbert J. Spence, assistant forest ranger, Cleveland National Forest; Charles T. Shook, assistant forest ranger, Kern National Forest; George W. Perkins, assistant forest ranger, Modoc National Forest; Percy L. Day, forest supervisor, Monterey National Forest; Alfred G. De La Riva, assistant forest ranger, Santa Barbara National Forest; Margaret M. Farley, forest clerk, Sierra National Forest; Edwin N. Purvis, clerk (stenographer and typewriter), Sierra National Forest; Elsie C. Shoup, forest clerk, Trinity National Forest; Bert Lewis, deputy forest supervisor, Stanislaus National Forest.

DISTRICT 6.—Operation: Mark E. Musgrave, forest ranger, Oregon National Forest; Elias T. Clark, forest assistant, Snoqualmie National Forest; Maria H. Roche, clerk (stenographer and typewriter), Umatilla National Forest; assistant forest rangers—Squire J. Santmyer, Chelan National Forest; Elias J. Wigal, assistant forest ranger, Columbia National Forest; C. K. Evarts, assistant forest ranger, Deschutes National Forest; Lawrence E. Manning, assistant forest ranger, Deschutes National Forest; Leo A. Blevins, assistant forest ranger, Minam National Forest; Jas. J. Walsh, assistant forest ranger, Okanogan National Forest; Edward G. Newman, assistant forest ranger, Olympic National Forest; Frederick R. Russell, assistant forest ranger, Siuslaw National Forest; Robert J. Watson, assistant forest ranger, Umpqua National Forest; John Kcefe, jr., assistant forest ranger, Whitman National Forest.

APPOINTMENT TERMINATED.

FORESTER.—Editor: Treadwell Cleveland, jr., expert.

PRODUCTS.—Laboratory: Louis Witt, assistant engineer in forest products.

DISTRICT 1.—District office: Thos. L. Day, superintendent of telephone construction. Operation: James E. Forster, assistant forest ranger, Bitterroot National Forest.

DISTRICT 2.—Operation: Sam S. Linscott, forest ranger, Arapaho National Forest. Silviculture: Edgar G. Polleys, forest assistant, Battlement National Forest; Philip L. Butterick, forest assistant, Black Hills National Forest; Devillo D. Wood, forest assistant, Routt National Forest.

DISTRICT 4.—Operation: Geo. R. Martin, assistant forest ranger, Weiser National Forest; Ethel S. Cotter, forest clerk, Minidoka National Forest.

DISTRICT 5.—Operation: Mathias Hugo, assistant forest ranger, Cleveland National Forest; John P. Yost, assistant forest ranger, Eldorado National Forest; Alice Chitenden, typewriter, Modoc National Forest; Clark C. Rice, assistant forest ranger, Sequoia National Forest; Gilbert J. Jackson, assistant forest ranger, Trinity National Forest; Ruth G. Trimble, clerk (stenographer and typewriter), Trinity National Forest. District office: Geo. T. Peekema, hydraulic engineer; Augusta W. Russell, clerk (stenographer and typewriter); Walter A. Greer, clerk; Lola Fowler, clerk (stenographer and typewriter).

DISTRICT 6.—Operation: John A. Baker, assistant forest ranger, Cascade National Forest; Fred C. Bartholomew, assistant forest ranger, Umatilla National Forest; Frank E. McDonald, assistant forest ranger, Wenaha National Forest; Alfred J. Eggan, assistant forest ranger, Wenatchee National Forest; Thos. W. Greve, assistant forest ranger, Wenatchee National Forest; Charles Roescheisen, assistant forest ranger, Colville National Forest. Silviculture: Nellie M. Shears, clerk (stenographer and typewriter), district office. Lands: E. C. Hard, mineral examiner; Thos. M. Moorman, clerk (law); O. J. Culp, superintendent of telephone construction.

DISMISSED.

DISTRICT 3.—Operation: Sam H. Pool, assistant forest ranger, Coconino National Forest.

With deep regret announcement is made of the death of Erle T. Very, forest clerk, Medicine Bow National Forest, on December 15, 1911.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information for forest officers, and will therefore be carefully read and kept on file for reference.

OFFICE OF THE FORESTER.

PUBLICATION.

Field Program to Remain a Quarterly—

The question of a return to a monthly issue of the Field Program was under discussion in December. It was strongly urged from the districts that there is need for such a change. The Forester, however, after giving careful consideration to the matter in all its aspects, decided that such a change is not advisable at the present time.

LAW.

OFFICE OF THE SOLICITOR.

Condemnation of Lands for National Forests—

The Attorney General, in a letter dated December 2, 1911, addressed to the Secretary of Agriculture, stated as his opinion:

To carry out the purposes of the Weeks forestry act, wherein you are given authority to procure by purchase certain lands, although no other method than purchase is mentioned, I believe that under the provisions of the act of August 1, 1888 (25 Stat. L., 357), you are authorized to procure by condemnation such lands as the commissioner by the aforesaid forestry act recommended for acquisition.

Refunds under Act of March 1, 1907 (34 Stat., 1256, 1270), as amended by Act of March 4, 1911 (36 Stat., 1235, 1253)—

In the decision, dated December 27, 1911, addressed to the Secretary of Agriculture, the Comptroller of the Treasury, referring to the above-mentioned act and its amendment, stated:

1. Reading the amendment in connection with the original provisions and bearing in mind the remedial purpose of the provision, I think the language sufficiently expresses an intent that the provisions of the amendment as well as the original act shall apply to all moneys received after July 1, 1907, and covered into the Treasury in accordance with the provisions of the original act.

2. Referring to a case (Longacre timber sale, district 3) where a contractor made a deposit to secure the purchase price of timber to be cut from National Forests under contract, but through circumstances for which the United States was not responsible failed to cut timber to the value of deposit or to the amount specified in contract, it was held "that the United States being in no wise responsible for the failure of the contractor to perform his agreement in accordance with its terms * * * the contract being fully executed by the United States and no extension having been granted, the right to damages, either actual or liquidated, became vested in the United States and could not be voluntarily waived or released by any officer or agent of the United States, and therefore refund of the amount of the deposit in excess of the value of timber cut is not authorized by the act."

3. Referring to a case in district 3, where an individual deposited funds in settlement for certain forest products cut in trespass on national forests and through error his attorney also deposited a like sum for the same purpose and both amounts were covered into the Treasury, it was held that the second deposit was "erroneously collected" and rightfully belonged to claimant, and that the Secretary of Agriculture is authorized to make the refund under the provision in the act relative to moneys "erroneously collected for the use of lands."

4. Referring to two cases in district 3, where deposits were made in compliance with departmental regulations relative thereto, to cover the cost of advertising timber sales, and in one of them the depositor died after advertising but before submitting bids for the timber, and in the other the depositor became financially unable to consummate the sale, it was held that the act authorized the refund of so much of the amounts deposited as is in excess of the amount of expense incurred by the United States by reason of the depositor's application to purchase.

Law Cases in District 1—

The Federal grand jury at Moscow, Idaho, November term, returned indictments against John E. Cleary, Wm. D. Nelson, and Arthur J. Kulp upon charges of perjury in violation of the provisions of the Penal Code of 1909, and the act of March 3, 1857 (11 Stat., 250). Cleary, Nelson, and Kulp filed affidavits in initiating their homestead entries upon lands now included within the Coeur d'Alene National Forest, in which affidavits they alleged, substantially, that they had settled upon these claims at a date prior to the withdrawal of lands as a National Forest and had continuously resided and made their homes upon their respective claims. The indictment charges that these allegations are false, inasmuch as the said defendants did not settle upon their respective claims at the dates alleged and did not maintain their residence thereon subsequently thereto, they having at all times during the said periods maintained their residence in the city of Spokane, Wash.

UNITED STATES *v.* O'HARE (CRIMINAL).—The Federal grand jury at Moscow, Idaho, November term, returned an indictment against one Frank O'Hare for failing to obey a subpoena issued and duly served for his appearance at a homestead hearing. O'Hare entered a plea of guilty at the Coeur d'Alene term of court and was fined \$25.

These cases were presented to the grand jury under direction of the Commissioner of the General Land Office, the evidence having been procured and assistance rendered by the Forest Service.

UNITED STATES *v.* GREAT NORTHERN RAILROAD COMPANY, MAY 17, 1911.—Judgment for \$480.75 and costs amounting to \$12.40 was rendered by the Federal court at Helena, Mont., in a suit brought by the United States against the Great Northern Railroad Co., after the attorneys for the company had signified its willingness to confess judgment in such sum. The suit was based upon the negligence (starting of fires) by the defendant company on their right of way, which fires subsequently spread to the Blackfeet National Forest. This case is of more than passing interest, although it did not go to trial, in view of the fact that one of the items of damages was the destruction of a great number of immature trees, the value of which was estimated on the basis of their value at maturity discounted to date.

Law Cases in District 2—

The claim of the United States against the Chicago, Burlington & Quincy Railroad for fire trespasses in the Black Hills National Forest, S. Dak., during the season of 1910, caused by sparks from the locomotives operated by that company, in which

the damages and cost of fighting fires was estimated at \$36,695, which included \$17,900 for young growth, \$5,059 for merchantable timber, and \$13,736 for fighting fires, has, upon recommendation of the Secretary of Agriculture, been settled by the Treasury Department upon the payment of \$25,000.

Law Cases in District 3—

Suits for the collection of civil damages were decided in favor of the Forest Service as follows:

Elihu Joy, grazing trespass upon Alamo National Forest, \$528.45 actual damages, \$322.70 costs of suit, permanent injunction; Sam B. Smith, grazing trespass upon Alamo National Forest, \$48 actual damages and costs; Ed Burlinson, grazing trespass, Alamo National Forest, \$31.50 actual damages, \$81.60 costs, permanent injunction; W. W. Varner, grazing trespass Alamo National Forest, \$47 actual damages, costs \$29.85; J. W. Jones, grazing trespass upon Alamo National Forest, \$145 damages and costs.

UNITED STATES *v.* J. W. VANWINKLE (CRIMINAL).—Indicted for willfully grazing stock upon National Forest reserves. On October 23, 1911, defendant entered a plea of guilty and was fined \$100 and costs amounting to \$35.20 and sentenced to three months in jail, the jail sentence being suspended during good behavior. In passing sentence in this case the court took occasion to remark upon the beneficence of the work done by the Forest Service and the necessity of the citizens complying fully with the law and the regulations governing National Forests, and stated in unmistakable language that the next violator of the law or the regulations brought before him for sentence on a criminal charge would not escape with such a light penalty.

Law Cases in District 4—

Cases reported to the Department of Justice were settled upon payments as follows:

Wadley Brothers, two suits grazing, trespass Wasatch National Forest, \$70.43 actual damages, \$75 punitive damages, \$40 costs; Roy Hales, grazing trespass Pocatello National Forest, \$31.50 actual damages, \$25 punitive damages, \$33.50 costs; John M. Pulsipher, grazing trespass upon Dixie National Forest, \$62.33 actual damages, \$25 punitive damages, and \$48.50 costs.

Law Case in District 5—

Indictment was returned by the Federal grand jury at Fresno, Cal., against T. R. Cummings for willfully setting fire to timber and underbrush on the Sierra National Forest.

Law Cases in District 6—

The Federal grand jury on November 2, 1910, returned indictment against Taylor Bailey and Dol Moore for lighting a camp fire on public domain. On October 9, 1911, defendants were found guilty and fined \$10 each and costs amounting to \$45.

George Filisiano and J. P. Stevens, arrested July 29, 1911, for setting a fire in the Olympic National Forest and held under bond of \$500 each, later indicted by the Federal grand jury, were tried September 29, 1911, and sentenced to serve three months in Kings County jail at Seattle, Wash.

UNITED STATES *v.* ADAMS DOWLING KING.—Indictment returned by Federal grand jury March 22, 1911. Defendants were tried October 9, 1911, found guilty and fined \$10 each and costs amounting to \$45.

UNITED STATES v. NORTHERN PACIFIC RAILROAD Co. (fire trespass).—Retrial of this case was held and resulted in a verdict for the Government of \$4,000 and costs. The costs in the first and second trials amounted to approximately \$800.

UNITED STATES v. HENRY ALLEN and S. E. WELL (fire trespass), in the Federal court, Seattle, Wash.—Defendants entered a plea of *nolo contendere* and were fined \$100 and costs.

UNITED STATES v. CORVALLIS & EASTERN RAILROAD Co. (fire trespass).—Judgment for \$4,428.38 rendered in the United States District Court for Oregon was affirmed by the United States Circuit Court of Appeals, San Francisco. Payment of damages with interest and costs amounting in all to \$5,575.54 has been made.

OPERATION.

Changes in Boundaries and Areas—

Proclamations and Executive orders have been signed changing National Forest boundaries as follows:

In District 4 the proclamation signed December 8 eliminated 127,570 acres from and added 27,360 acres to the Moapa National Forest, Nev. The Executive order signed November 3 eliminated 1,400 acres from the Santa Rosa National Forest, Nev.

In District 6 the proclamations of October 23 transferred approximately 46,000 acres of land from the Rainier National Forest to the Snoqualmie National Forest. No eliminations were made in connection with either forest.

Purchase of Wire—

Considerable trouble has been caused by purchases of wire being made from other than the regular contractor or at other than contract prices. To avoid this in future, the district foresters have been instructed that all orders by supervisors and other forest officers for telephone wire should be forwarded through the office of the district fiscal agent, who will, if the purchase is properly payable from Forest Service funds, initial the order and transmit it immediately to the dealer or agent.

SILVICULTURE.

New Organization of Investigative Work—

The Central Investigative Committee, provided for in the Manual, was designated by the Forester on January 2. It consists of Raphael Zon, chairman, representing Silviculture, James T. Jardine, representing Grazing, and Howard Weiss, representing Products. District investigative committees will be appointed as soon as practicable. They will consist ordinarily of four men, three of whom are engaged in the major lines of investigation, silviculture, grazing, and products. The fourth will be a supervisor.

The creation of these committees marks a progressive step in the development of the investigative work of the Service. It is a recognition of the old principle that several heads are better than one, in perfecting plans which call for the best the Service has in scientific attainments and experience in research.

The investigative work of the Service has greatly broadened within the last three years. A large and well-equipped laboratory in forest products is now conducted at

Madison, Wis., with supplemental studies in the East and in three of the western districts.

Four experiment stations for the intensive study of silviculture have been established on National Forests. Aside from these stations an enormous amount of investigative work has been inaugurated, in reforestation, yield, results of various methods of cutting, and other fundamental aspects of silviculture. An office of grazing studies has been established. Its work, already begun in several districts, will be rapidly extended.

To get the best results all of these activities must be unified. Duplication must be avoided. Each investigative project must be undertaken by the unit, or the station, or the men best qualified to handle it. Where several men in different districts or branches of the Service should cooperate in a study, the part assigned to each must be carefully mapped out. Plans must be fully matured and checked, to make sure that the most important problems are attacked in the right way and that all of the available information and facilities of the Service are utilized.

The investigative committees are designed to assist in these ways. They are not to hamper or check the individual member of the Service, but to aid him by correlating his plans and efforts with those of all of the other members.

The publication of the "Review of Forest Investigations" from time to time will be an important factor to the same end. It will aim to keep all of the men engaged upon investigative work in touch with each other. It will give them the fresh results of each study as it develops. It will be primarily for the interest and benefit of all the investigators in the Service, in all lines of its work, as a cumulative medium for interchange of scientific data and ideas.

The new plan is but a step toward the accomplishment of one of the things which the Forester has most at heart, namely, the development of a staff of high-grade investigators in the Service whose scientific work shall compare favorably with the best of any other body of men in the country engaged upon research.

Bond from Persons Cutting Fire-Killed Timber on Unperfected Claims—

In a letter dated November 23 the Assistant Attorney General advised the Secretary of Agriculture that officers of the Forest Service will be justified in not interfering with any person or company cutting and removing fire-killed timber under arrangements with the claimant, from an unperfected claim, unidentified grant, or unapproved selection, situated within the exterior boundaries of a National Forest, if such person or company files with the proper officer of the United States a sufficient bond to secure the United States for the value of the timber to be cut and removed in the event such claim, grant, or selection is canceled, abandoned, or relinquished.

Sales of Fire-Killed Timber—

DISTRICT 1.—The approval of the application of M. P. Bogle for 55 million feet of white pine on the St. Joe National Forest, on December 30, brought the total sales of timber killed by the fires of 1910 in district 1 up to approximately 340 million feet. The reconnaissance of all fire-killed areas has been actively pushed, and it is hoped that a considerable percentage of the accessible timber will be sold before it becomes unmerchantable.

GRAZING.

Change in Filing System for Grazing Applications and Permits—

The use of serial numbers in the designation of grazing applications and permits has been discontinued and the date of application adopted in its place. This will simplify the filing system and make it uniform, as grazing applications and permits will be filed alphabetically the same as other kinds of uses instead of numerically. Full instructions have been issued for the immediate adoption of this plan. A new record card, Form 621, has also been adopted, which is larger than the old card and provides for a record covering a period of 10 years. This will greatly reduce the clerical work and enable the forest officers to keep better track of the grazing business.

LANDS.

Captions in Interior Right-of-Way Cases—

Hereafter all captions in special-use letters in Interior easement cases will omit the word “(Interior)” and substitute in lieu thereof the name of the local land office and the Land Office serial number, as illustrated by the following example:

L. Blackfeet, Uses,
Brown and Smith,
Reservoir and Conduit,
(Rapid City 027) 12/23/11.

SERVICE PUBLICATIONS ISSUED.

Bulletin 98. Reforestation on the National Forests.

Bulletin 99. Uses of Commercial Woods of the United States: II. Pines.

Bulletin 100. Crater National Forest: Its Resources and Their Conservation.

Bulletin 101. Western Yellow Pine in Arizona and New Mexico.

Bulletin 102. The Identification of Important North American Oak Woods.

Bulletin 103. The Distinguishing Characteristics of North American Gumwoods.

Circular 23. Suggestions to Prospective Forest Students (Fifth Revision).

Circular 173. Avalanches and Forest Cover in the Northern Cascades.

Circular 187. Manufacture and Utilization of Hickory, 1911.

Circular 188. Volatilization of Various Fractions of Creosote after their Injection into Wood.

Circular 190. A Visual Method for Determining the Penetration of Inorganic Salts in Treated Wood.

Circular 191. Modification of the Sulphonation Test for Creosote.

Circular 192. The Prevention of Sap Stain in Lumber.

Circular 196. The influence of Age and Condition of the Tree upon Seed Production in Western Yellow Pine

—Unnumbered Circular. Tree Distribution under the Kinkaid Act, 1911.

National Forest Manual—Claims, Settlement, Administrative Sites.

National Forest Manual—Forest Plans, Forest Extension, Forest Investigations, Libraries, Cooperation, Dendrology.

National Forest Manual—Timber Sales, Administrative Use, Timber Settlement, Free Use.

Report of the Forester, 1911.

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